

AMENDMENTS TO THE CLAIMS:

Please amend claims 1, 6, 7, 10, 13, 15-18 and 22 and add newly written claim 23 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (*currently amended*) A system for imaging the contents of a container, the system comprising:

an imager arranged responsive to receive received millimetre wave radiation from a reception volume through a, said imager including at least one receive antenna that itself comprises at least one receiving element, wherein, in use, the reception volume is smaller than an internal volume of the container is moving, and there is relative movement between the container and relative to the receive antenna, the reception volume is positioned such that the relative movement causes the reception volume to move moves through the container; and

a computer system for recording data relating to said received millimetre wave radiation from the reception volume at a plurality of different times during the relative movement between antenna is recorded as the reception volume moves through and the container, and for combining the data and producing a composite image of the contents of the container is built up from the recorded data.

2. *(previously presented)* A system as claimed in claim 1 wherein the container is mounted on a vehicle.

3. *(previously presented)* A system as claimed in claim 1 wherein the imaging system is stationary and the container is moving.

4. *(previously presented)* A system as claimed in claim 1 where the speed of the container relative to the receive antenna is measured during at least part of the data recording, and this measurement is used as a parameter when creating the complete image.


5. *(previously presented)* A system as claimed in claim 1 where the speed of the container is controlled for the duration of data recording.

6. *(currently amended)* A system as claimed in claim 1 wherein said at least one receive antenna has an axis and ~~the axis of the receive antenna~~ is not perpendicular to ~~the~~ direction of relative movement of the container and receive antenna.

7. *(currently amended)* A system as claimed in claim 1 wherein said at least one receive antenna comprises a plurality of receive antennas ~~are used to gather~~ for gathering data from a plurality of reception volumes.

8. *(previously presented)* A system as claimed in claim 1 wherein the image may be manipulated to allow views of the container contents from different angles.

9. *(previously presented)* A system as claimed in claim 8 wherein the manipulation allows the user to view stereoscopic images of the container contents.

 10. *(currently amended)* A system as claimed in claim 1 wherein ~~each~~ said at least one receive antenna comprises a plurality of receiving elements, arranged in an array.

11. *(previously presented)* A system as claimed in claim 10 wherein the plurality of receiving elements are arranged in a substantially linear array.


12. *(previously presented)* A system as claimed in claim 11 wherein the substantially linear array has a major axis perpendicular to the direction of relative movement between the container and the imaging system.

13. *(currently amended)* A system as claimed in claim 1 wherein said at least one receive antenna has a directional receive beam pattern and the received reception volume is scanned by changing with time the direction of ~~each~~ said receive beam pattern.

14. *(previously presented)* A system as claimed in claim 13 wherein the change in direction is effected by conically scanning the direction of each receive beam pattern.

15. *(currently amended)* A system as claimed in claim 13 wherein a focal plane of the reception volume v

iewed from the ~~receiver~~receive antenna comprises an area from which no radiation is received during a complete cycle of the scanning system that is completely surrounded by an area from which radiation is received during the scan.

 16. *(currently amended)* A system as claimed in claim 10, wherein further including a second array of receive elements ~~is provided that is~~ displaced from the first array so as to receive energy from a different focal plane from the first array.

17. *(currently amended)* A system as claimed in claim 1 wherein the ~~image data~~ is analysed by image recognition software that is pre programmed with images or characteristics of contraband items, such that when a match is found between the image data and at least one of the contraband items an alert is sent to an operator.


18. *(currently amended)* A method of imaging the contents of a container where the container is moving relative to a receive antenna of the imaging system, ~~eharacterised by~~said method comprising the steps of:

arranging an imager to receive millimetre wave radiation from a reception volume through the receive antenna ~~that comprises at least one receiving element;~~

positioning the reception volume such that the relative movement causes the reception volume to move through the container;

recording data from the imager as the reception volume is moved through the container; and

compiling an image of the contents of the container from the data.

 19. *(previously presented)* A method as claimed in claim 18 where the receive antenna is arranged to be stationary, and the container arranged to be moving.

20. *(previously presented)* A method as claimed in claim 18 where the speed of the container relative to the receive antenna is measured as the reception volume is inside the container, and this measurement is used as a parameter when creating the complete image.

21. *(previously presented)* A method as claimed in claim 18 where the speed of the container is controlled for the duration the reception volume is inside the container.

22. *(currently amended)* A portal incorporating an imaging system as claimed in claim 1.

B1 23. (new) A system as claimed in claim 1, further including processing means for re-scaling the image produced by the imager to bring the image of an item of known relative dimensionality into correct proportion.
